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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-DM-PMC-2014-15 Date: 02.04.2014

TEST REPORT

CLIENT	:	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.
AGENCY	:	**Sri. Damodar & Co,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing and Laying HDPE water Line in Mohan Kumar Nagara Block-III in J P Park, Ward No.17
REFRENCE	:	EE/RRND/W.o No/225/2013-14 Dated: 06.02.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	365 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

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Job No.: CECTC-DM-PMC-2014-15

Date : 02.04.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri. Damodar & Co,** Contractor, Bangalore.

Name of Work : Providing and Laying HDPE water Line in Mohan Kumar Nagara Block-III in J P Park, Ward No.17

Refrence : EE/RRND/W.o No/225/2013-14 Dated: 06.02.2014

Date of Testing : 02.04.2014

Material : Sand

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	72	7.20	7.20	92.8	90-100
2.36	145	14.50	21.70	78.3	75-100
1.18	166	16.60	38.30	61.7	55-90
600 Micron	205	20.50	58.80	41.2	35-59
300 Micron	221	22.10	80.90	19.1	8-30
150 Micron	168	16.80	97.70	2.3	0-10

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Job No.: CECTC-DM-PMC-2014-15

Date : 02.04.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri. Damodar & Co,** Contractor, Bangalore.

Name of Work : Providing and Laying HDPE water Line in Mohan Kumar Nagara Block-III in J P Park, Ward No.17

Refrence : EE/RRND/W.o No/225/2013-14 Dated: 06.02.2014

Date of Testing : 02.04.2014

Material : 40mm Aggregates

Total wt. of aggregates in gms = **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	420	2.80	2.80	97.20	95-100
20	8265	55.10	57.90	42.10	30-70
10	3215	21.43	79.33	20.67	10-35
4.75	2548	16.99	96.32	3.68	0-5

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Job No.: CECTC-DM-PMC-2014-15 Date : 02.04.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri. Damodar & Co,** Contractor, Bangalore.

Name of Work : Providing and Laying HDPE water Line in Mohan Kumar Nagara Block-III in J P Park, Ward No.17

Refrence : EE/RRND/W.o No/225/2013-14 Dated: 06.02.2014

Date of Testing : 02.04.2014

Material : 20mm Aggregates

Total wt. of aggregates in gms = **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	192	3.8	3.8	96.2	95-100
10	2856	57.1	61.0	39.0	25-55
4.75	1548	31.0	91.9	8.1	0-10

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Job No.: CECTC-DM-PMC-2014-15 Date: 02.05.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeswari Nagara Division, BBMP, Bangalore.
Agency : **Sri. Damodar & Co,** Contractor, Bangalore.
Name of the work : Providing and Laying HDPE water Line in Mohan Kumar Nagara Block-III in J P Park, Ward No.17
Reference : EE/RRND/W.o No/225/2013-14 Dated: 06.02.2014
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.04.2014	02.05.2014	8.168	525.7	23.36
2	04.04.2014	02.05.2014	8.198	520.5	23.13
3	04.04.2014	02.05.2014	8.202	513.7	22.83

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